

REMARKS

Claims 1-20 are pending in this application. Claims 1 and 10 have been amended. Claim 6 has been canceled without prejudice to or disclaimer of the underlying subject matter. Claims 16-20 are new. No new matter has been added.

In amended Figures 3A-4B, the cross-hatching of each figure has been amended to reflect the different materials being displayed.

In view of the foregoing amendments and following remarks, Applicants respectfully request the Examiner to reconsider and withdraw all outstanding grounds of rejection. Applicants respectfully request allowance of the application.

Applicants thank Primary Examiner Hyeon for the courtesy of the telephonic interview with Applicants' representative Sumeet Magoon on February 1, 2005 (hereinafter, "Examiner interview"). During the Examiner interview, Applicants' representative proposed amending independent claims 1 and 10 to include the features of dependent claim 6 (now canceled). Primary Examiner agreed that the applied art does not disclose or suggest a shim or supporting device having a "Y shape," as claimed. Support for the "Y shape" feature can be found in original claim 6, at least Figures 1 and 2, and the specification at the paragraph beginning at page 3, line 32 (as amended by Response dated 9/16/04) and page 4, lines 6-11, for example. Applicants submit that independent claims 1 and 10 (as presented) are in condition for allowance over the applied art.

In addition, Applicants thank the Examiner for indicating that claims 4 and 12 contain allowable subject matter.

The Office Action objects to the drawings because the Office Action claims that the cross-sectional views of the drawings are not showing the appropriate cross-hatching lines for different materials. Applicants submit herewith corrected drawing sheets in compliance with 37 C.F.R. 1.121(d). Applicants submit that the objection to the drawings has been overcome.

Claims 1, 7 and 10 stand rejected under 35 USC § 102(e) as being anticipated by Deeney et al., U.S. Patent No. 6,791,184 (hereinafter *Deeney*). Claims 1-3, 5, 6, 8-11 and 13-15 stand rejected under 35 USC § 103(a) as being unpatentable over Wang, U.S. Patent No. 6,193,205 (hereinafter *Wang*) in view of Ju, U.S. Patent No. 6,344,971 (hereinafter *Ju*).

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." *Verdegaal*

Amendments to the Drawings:

The attached sheets of drawings include changes to Figures 3A-4B. The two sheets attached, which include Figures 3A-4B, replace the original sheets filed. In Figures 3A-4B, cross-hatching has been amended to reflect the different materials being displayed.

Attachment: Replacement Sheets
 Annotated Sheets Showing Changes

Bros. v. Union Oil Co. of California, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 Fed. Cir. 1987).

With respect to claims 1 and 10 (as presented), Applicants submit that *Deeney* does not expressly or inherently describe each and every element of the claimed invention.

As discussed during the Examiner interview, *Deeney* does not disclose or suggest “wherein said shim is mechanically and removably fastened to the printed circuit board and wherein said shim has a Y shape,” as recited, among other features, in independent claim 1 (as presented). In addition, *Deeney* does not disclose or suggest “mechanically and removably fastening the one or more supporting devices to the printed circuit board, wherein the one or more supporting devices have a Y shape,” as recited, among other features, in independent claim 10 (as presented). Independent claims 1 and 10 have been amended to include the features of dependent claim 6 (now canceled). *Deeney* does not disclose or suggest that a shim or supporting device has a “Y shape,” as claimed.

Moreover, neither *Wang* nor *Ju* overcome those deficiencies of *Deeney* described above. For example, neither *Wang* nor *Ju* disclose or suggest that the shim or supporting device has a “Y shape,” as claimed.

Therefore, Applicants respectfully submit that independent claims 1 and 10 are in condition for allowance over the applied references for at least the reasons stated above.

With respect to the new independent claim 16, Applicants respectfully submit that the applied references, either separately or in combination, fail to disclose or suggest “wherein the shim is installed on a corner portion of the integrated circuit package,” as recited, among other features, in new independent claim 16. Therefore, Applicants submit that new independent 16 is in condition for allowance over the applied art.

In addition, Applicants respectfully submit that the applied references fail to disclose or suggest the following features of the dependent claims:

- the shim comprises...a base that comprises a fastening means to secure the shim to the printed circuit board (claims 2 and 17)
- wherein the shim has a Y shape (claim 19)
- the supporting device is installed on a corner of the integrated circuit package (claim 5)

- wherein the fastening fastens the one or more supporting devices only on one or more corners of the integrated circuit package (claim 13)
- fastening the supporting device to the printed circuit board by screws (claims 8, 14 and 20)
- fastening the supporting device to the printed circuit board by dimples (claims 9 and 15)

Claims 2-5 and 7-9 depend from independent claim 1, claims 11-15 depend from independent claim 10 and new claims 17-20 depend from new independent claim 16. Therefore, claims 2-5, 7-9, 11-15 and 17-20 are in condition for allowance over the applied art for at least the reasons stated above and for the additional features recited therein.

CONCLUSION

In view of the above amendments and remarks, Applicants believe that the rejection against this application has been fully addressed and that the application is now in condition for allowance. Therefore, withdrawal of the rejection and a notice of allowance for the application are respectfully requested.

It is believed that no extensions of time or fees are required, beyond those that may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required (including fees for net addition of claims) are hereby authorized to be charged to Hewlett-Packard Development Company's deposit account no. 08-2025.

If the Examiner believes that a personal or telephonic interview would be of value in expediting the prosecution of this application, the Examiner is hereby invited to telephone the undersigned counsel to arrange for such a conference.

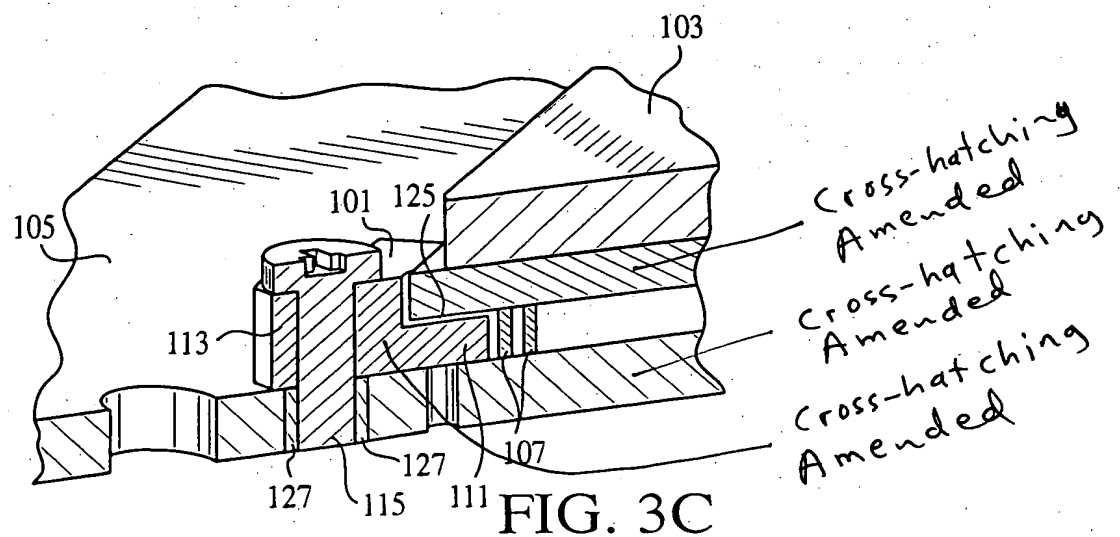
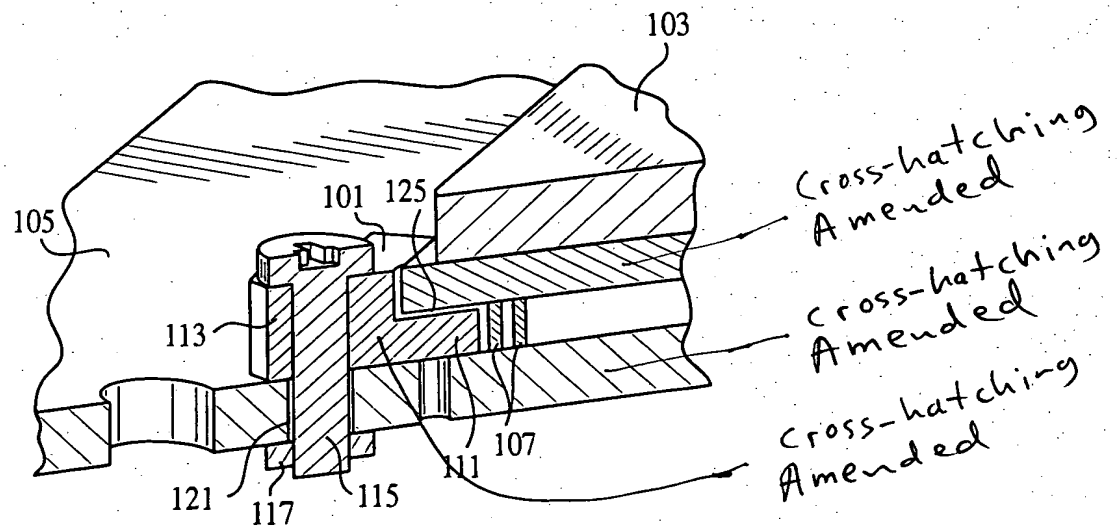
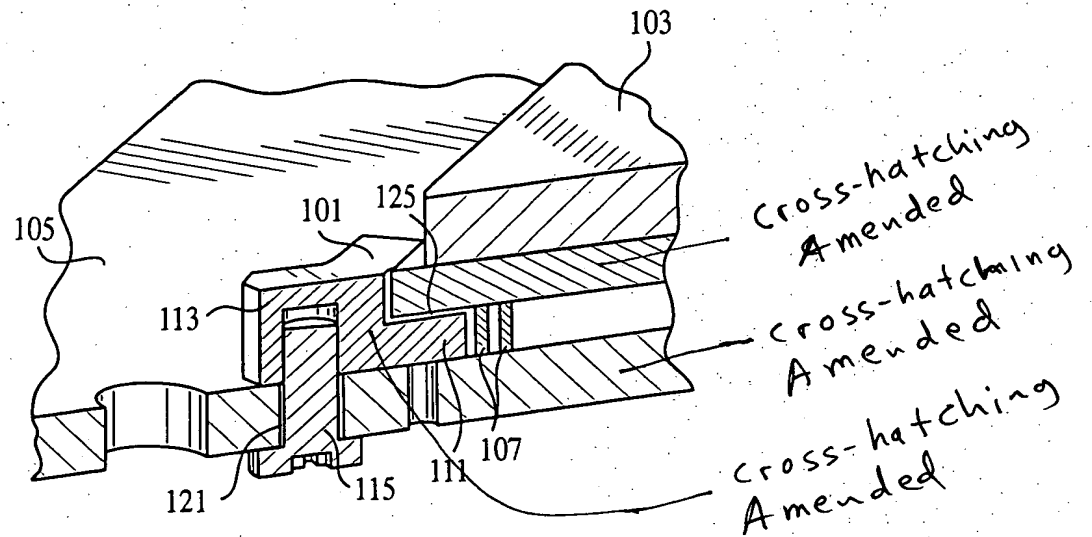
Respectfully submitted,



Date: **February 23, 2005**

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Attachments



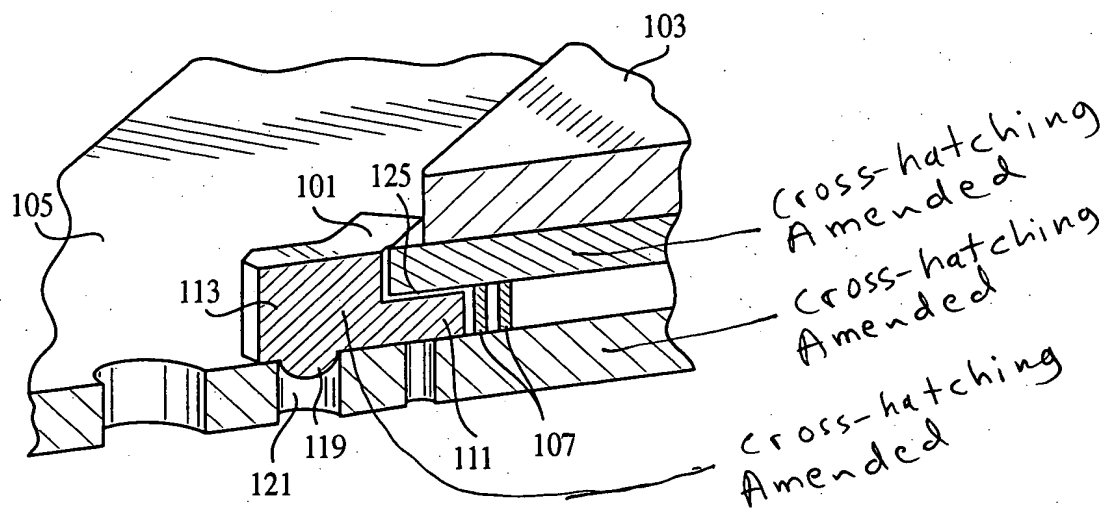


FIG. 4A

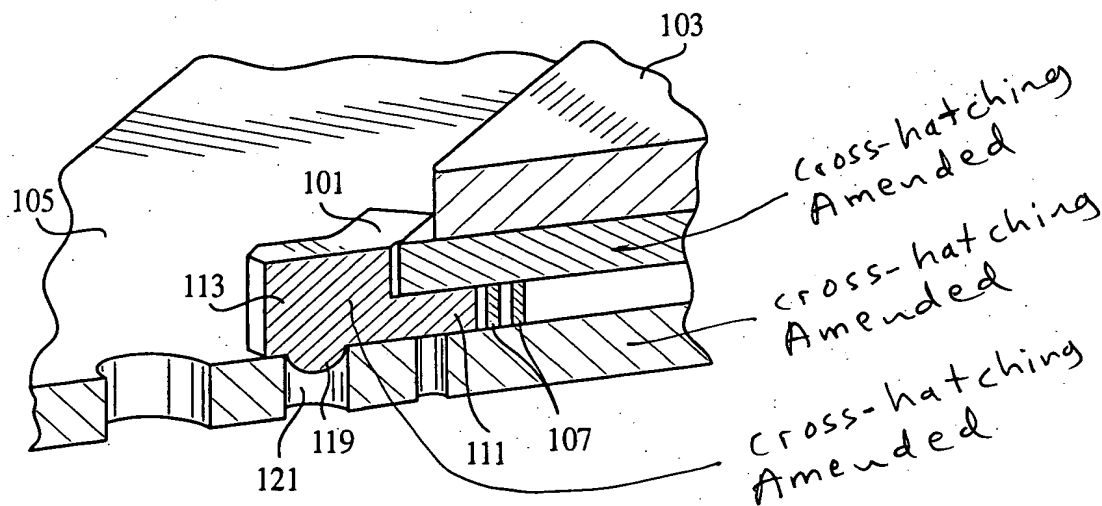


FIG. 4B